Meet Michigan's Clean Corporate Citizens





July 2004 www.michigan.gov/deq This report offers highlights on a number of Clean Corporate Citizen facilities. For complete information on the Clean Corporate Citizen criteria and application process, please contact:

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Environmental Science and Services Division
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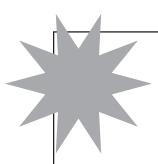


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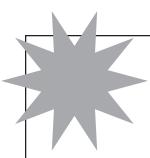


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To The Citizens of Michigan:

Welcome to the 2003 edition of "Meet Michigan's Clean Corporate Citizens," a catalog of 30 facilities that earned recognition in 2003 for responsible environmental management, pollution prevention achievements, and the commitment to environmental compliance.

The Clean Corporate Citizen (C3) Program grew an amazing 53 percent in 2003, and continues to be one of the nation's leading voluntary environmental leadership programs. Shortly before this 2003 report went to print, we welcomed the 100th C3 to the program. This milestone demonstrates the strength of the C3 Program and its value to Michigan businesses. The Department of Environmental Quality (DEQ) truly celebrates the diversity of C3 participants and the wealth of environmental protection ideas, projects, and systems they have put in place to protect their workers, their operations, and their surrounding communities.

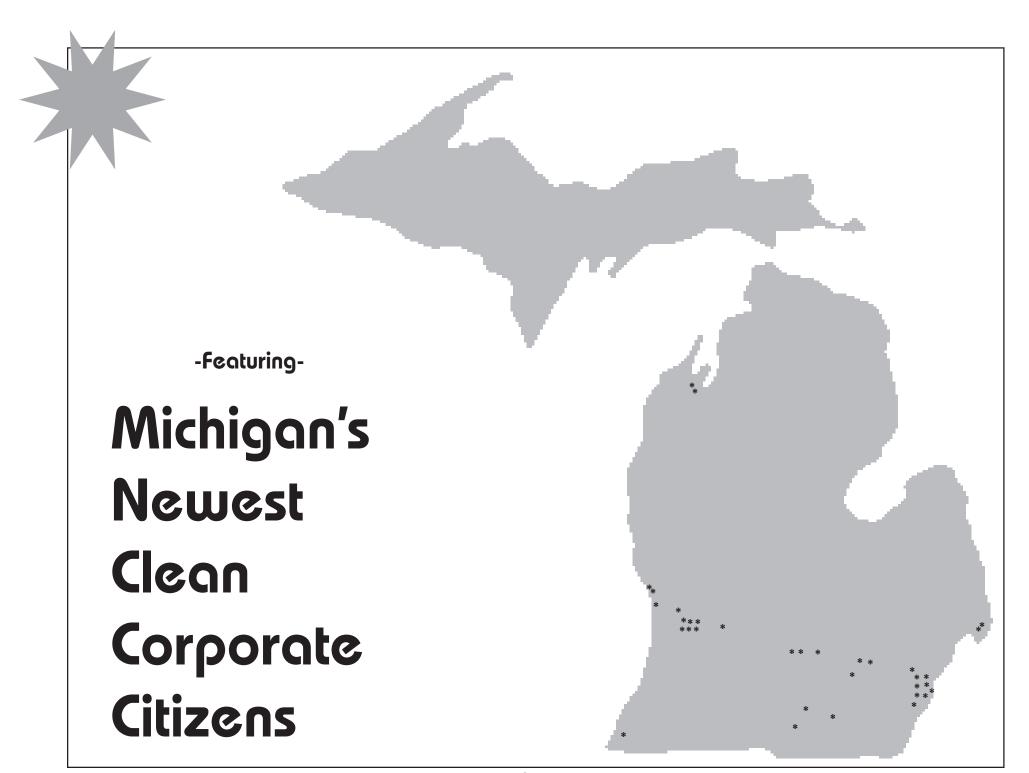
In October 2003, I had the privilege of addressing the first C3 mini-conference, hosted by Consumers Energy at their new corporate facility in Jackson. Management and associates from C3 facilities all across Michigan came together to share innovative environmental programs and technologies. We also used this energizing opportunity to brainstorm improvements to the C3 Program that will increase the value of voluntary membership.

This past year, we have worked towards having the Environmental Management System Guidance Manual and interactive forms available on-line, and drafted revisions to the C3 application and renewal forms to both simplify them and assist us in gathering data more efficiently from the many environmental improvements made by our C3's.

By operating always with their eye on the target of environmental excellence, Clean Corporate Citizens add value to the surrounding community and demonstrate that proactive environmental management and pollution prevention also benefit the business bottom-line. Please join the DEQ in welcoming these new environmental partners to the C3 Program and take a few moments to learn more about their achievements.

PROGRAM

Steven E. Chester, Director



Michigan's Featured Clean Corporate Citizens

- ADAC Plastics, Inc.
 - ADAC Door Components-Port City Plant, Muskegon
 - ADAC Door Components-Keating Ave. Plant, Muskegon
 - ADAC Door Components-32nd St. Plant, Grand Rapids
 - ADAC Automotive Trim-Saranac Plant, Saranac
 - ADAC Automotive Trim-36th St. Plant, Grand Rapids
- ♦ American Axle & Manufacturing Detroit Gear & Axle Plant, Detroit
- ◆ Asahi THERMOFIL Fowlerville Center, Fowlerville
- ◆ Atlas Technologies, Inc., Fenton
- ♦ Cascade Automotive Solutions Group
 - 5050 33rd Street Plant, Grand Rapids
 - 5175 36th Street Plant, Grand Rapids
 - 5141 36th Street Plant, Grand Rapids
 - 5055 36th Street Plant, Grand Rapids
- ◆ Collins & Aikman Manchester Operation, Manchester
- ◆ Detroit Edison St. Clair Power Plant, St. Clair
- ◆ DeWitt Barrels, Incorporated, Marne
- ♦ Elm Plating Company, Jackson

- Ford Motor Company Livonia Transmission Plant, Livonia
- ♦ General Motors Lansing Regional Stamping Plant, Lansing
- ◆ General Motors Powertrain Romulus Engine Plant, Romulus
- ◆ I & W Industries, L.L.C., Traverse City
- ◆ Inalfa/SSI Roof Systems, L.L.C., Warren
- ♦ Kay Automotive Graphics, Lake Orion
- Keykert USA, Inc.
 - Keykert USA, Inc., Webberville Plant, Webberville
 - Keykert USA, Inc., Wixom Plant, Wixom
- ◆ LDM Technologies St. Clair
- ◆ Light Corporation, Grand Haven
- ♦ Modern Plastics Corporation, Benton Harbor
- ♦ Palmer Engineering, Inc., Lansing
- Plastech Engineered Products, Inc. Clarkston Facility, Clarkston
- ♦ Quality Metalcraft, Inc., Livonia
- Skilled Manufacturing, Inc., Traverse City
- ◆ Tenneco Automotive, Litchfield
- ♦ Uni Boring Inc., Howell
- ♦ Visteon Corporation Ypsilanti Plant, Ypsilanti

Michigan's Continuing Clean Corporate Citizens

(Featured in September 2000, December 2001, and December 2002 reports)

ADAC Automotive Trim 36th. Street Plant, Grand Rapids

ARVCO Container Corporation, Kalamazoo

Baker Furniture, Holland

Cascade Engineering - Automotive Trim Solutions Group, Grand Rapids

Collins & Aikman - Westland Plant, Westland

Consumers Energy - JR Whiting Plant, Erie

Consumers Energy - Parnall Road Office Complex, Jackson Cyltec, L.L.C., Tecumseh

Daimler Chrysler Sterling Heights Assembly Plant,

Sterling Heights

Dapco Industries, Dexter

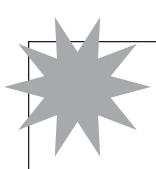
Dearborn Mid-West Conveyor, Taylor

Demmer Corporation, Delta Plant, Lansing

Denso Manufacturing Michigan, Inc., Battle Creek

Detroit Edison - Fermi 2 Power Plant, Newport

DuPont - Mt. Clemens, Mt. Clemens



Michigan's Continuing Clean Corporate Citizens

(Featured in September 2000, December 2001, and December 2002 reports)

Eaton Corporation - Saginaw Plant, Saginaw

Ford Motor Company - Automatic Transmission New Product Center, Livonia

Ford Motor Company - Engine Manufacturing Development Operations, Allen Park

Ford Motor Company - Romeo Engine Plant, Romeo

Ford Motor Company - Van Dyke Plant, Sterling Heights

General Motors - Orion Assembly Center, Orion Township

General Motors Pontiac Centerpoint Campus (PCC) -

Validation Center, Pontiac

General Motors Powertrain - Livonia Engine Plant, Livonia

General Motors Powertrain - Warren Transmission Plant, Warren

Grayling Generating Station, Grayling

Great Lakes Gas Transmission Company

(11 Locations Statewide)

Boyne Falls, Brevort, Crystal Falls, Frederic, Lake,

Naubinway, Otisville, Rapid River, St. Clair,

Sault Ste. Marie, Wakefield

IMCO Recycling Specialty Alloys - Saginaw Facility, Saginaw

Knoll, Inc. - Grand Rapids Facility, Grand Rapids

March Coatings - Plants 1 and 2, Brighton

Mark IV Automotive, Big Rapids Facility, Big Rapids

NorthStar Print Group, Norway

Pfizer Global Research and Development - Ann Arbor

Laboratories, Ann Arbor

Smurfit-Stone Container Corporation - Ontonagon Mill,

Ontonagon

TAC Manufacturing, Inc., Jackson

T.E.S. Filer City Station, Filer City

TRW Automotive, Fowlerville

Unified Industries, Inc., Howell

Visteon Corporation - Chesterfield Plant, Chesterfield

Visteon Corporation - Milan Plant, Milan

Visteon Corporation - Sheldon Road Plant, Plymouth

Visteon Corporation - Utica Plant, Shelby Township



Environmental Benefits for Commitment and Achievement

The Clean Corporate Citizen program is built on the concept that Michigan establishments that consistently demonstrate environmental stewardship and pollution prevention can be relied upon to carry out their environmental protection responsibilities with less department oversight. These establishments have earned the benefit of greater regulatory flexibility and public recognition for their efforts.

A Clean Corporate Citizen Demonstrates:

Responsible Environmental Management

A C3 must have a strong and effective Environmental Management System (EMS) in place, based on the nature and scale of their operations. Establishments certified to ISO 14001, the international standard for environmental management systems, also meet the EMS criteria for C3 designation. Some of the required EMS elements include (see the Appendix for more information on EMS):

- Comprehensive identification of operations, activities, and processes that may potentially affect (negative or positive) the environment;
- Self-initiated environmental and system audits;
- Procedures for emergency response and follow-up, including a system to identify, correct, and avoid future incidents;
- ◆ A system for communicating environmental information to both empolyees and the public;
- An environmental policy that clearly states an establishment's commitment to environmental excellence and continual improvement; and,
- Environmental training for employees.

Pollution Prevention

A C3 meets the criteria by:

- ◆ Adopting a pollution prevention (P2) policy and having an active establishment-wide P2 program;
- Regularly assessing operations to identify opportunities for waste reduction, reuse of materials, and responsible recycling;
- Setting P2 goals and working toward achievement of those goals;
- Sharing accomplishments and strategies; and
- Participating in information and technical exchange programs to share P2 success stories and encourage other establishments to chart P2 directions.

An establishment can also satisfy the P2 criteria by joining and being a member in good standing in one of DEQ's recognized P2 voluntary partnerships.

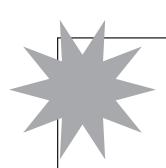
- Department of Defense/State of Michigan Pollution Prevention Alliance
- ◆ Metal Finishers Pollution Prevention Initiative
- Michigan Agricultural Pollution Prevention Program
- ◆ Michigan Business Pollution Prevention Partnership
- Michigan Great Printers Project
- ◆ Michigan Pulp and Paper Pollution Prevention Program
- Michigan Turfgrass Environmental Stewardship Program
- ◆ Small Chemical Manufacturers Pollution Prevention Initiative

Environmental Compliance

A C3 demonstrates consistent compliance with applicable permits and regulations, and has no outstanding unresolved environmental violations. A complete list of establishment-related permits, licenses, and binding agreements is required at the time of application. C3's must renew their designation annually and DEQ staff perform a verification of compliance with each renewal.



CLEAN CORPORATE CITIZEN PROGRAM



A Closer Look at Several Clean Corporate Citizens

Welcome to the section of this report that holds the most important information of all—details about Michigan's 2003 Clean Corporate Citizens, including information about their specific operations, policies, and achievements.

Some Key Terms:

C3: Clean Corporate Citizen

Environmental management system (EMS): the part of an overall management system that addresses environmental concerns through the allocation of resources, assignment of responsibilities, and ongoing evaluation of practices, procedures, and processes to achieve sound environmental performance. (See Appendix for more information on EMS.)

ISO 14001: a standard adopted by the international organization for standardization to prescribe uniform requirements for the purpose of certification or registration of an environmental management system.

Pollution prevention (P2): eliminating or minimizing the initial generation of waste at the source or utilizing environmentally sound on-site and off-site reuse or recycling. Waste treatment, release, or disposal is not considered pollution prevention in the C3 program.

ADAC PLASTICS, INC.

"ADAC takes great pride in having all five manufacturing facilities designated as Clean Corporate Citizens by the State of Michigan. We believe that protecting the environment is just as important as being a successful automotive supplier."

- Jim Teets, President and Chief Operating Officer



All five ADAC Plastics manufacturing locations located in Michigan are designated as Clean Corporate Citizens:

ADAC Automotive Trim, 36th St. Plant, Grand Rapids (since 8/30/02 - 51st in state) ADAC Door Components Port City Plant, Muskegon (since 7/28/03 - 67th in state) ADAC Door Components Keating Ave. Plant, Muskegon (since 7/28/03 - 68th in state) ADAC Door Components 32nd St. Plant, Grand Rapids (since 7/28/03 - 69th in state) ADAC Automotive Trim, Saranac Plant, Saranac (since 7/28/03 - 70th in state)

ADAC Plastics, Inc. reports:

ADAC is a full service automotive supplier dedicated to the production of door handles and components, cowl vent grilles, exterior trim, and marker lighting for worldwide automakers. It designs and manufactures components for Ford Motor Company (and associated holdings), General Motors Corporation, Daimler Chrysler, Honda Motors, Nissan Automotive, and Toyota Motor Manufacturing.

ADAC's locations are certified to the ISO14001 EMS Standard, compliant to the QS-9000 Quality Standards, and also ISO-9001 certified. Founded in Grand Rapids, Michigan in 1975, ADAC has locations in the United States and England totaling over 750,000 square feet of manufacturing space and employing more than 1100 employees.

ADAC PLASTICS, INC., continued:

2003 Highlights in Pollution Prevention:

- Implemented process improvements at its two surface coating operations in Muskegon. The result was a source reduction in the amount of hazardous waste purge solvent generated by 42 and 45 percent respectively.
- Concurrent implementation of a Solvent Reconstitution Program for its two surface coating operations in Muskegon, thereby further reducing the amount of hazardous waste destined for fuel blending. Trials are underway in 2004 for a third ADAC location to implement a Solvent Reconstitution Program.
- Adopt-A-Stream in cooperation with the West Michigan Environmental Action Council, ADAC's 36th St. Plant in Grand Rapids adopted a 1/2 mile portion of Plaster Creek in the Grand Rapids Area and conducted its first clean-up.

ADAC continues to sustain overall excellence in environmental performance. Company-wide success stories include:

- Effective use of air pollution control equipment on plastic part surface coating operations to minimize emissions of regulated air pollutants;
- ♦ Waste segregations to supplement cost effective recycling and disposal of hazardous and non-hazardous wastes;
- Recycling of cardboard, office paper, scrap plastic and metal, and various Universal Wastes such as fluorescent and Metal Halide light bulbs, used batteries, and CRTs;
- Used aerosol can puncturing equipment to safely recycle the scrap metal, capture air emissions, and collect solvent residues;
- Use of non-hazardous parts washer systems for maintenance parts cleaning; and
- Utilizing Green Purchasing concepts such as purchasing recycled materials as raw materials and working with our valued suppliers towards meeting our various customer's environmental requirements to design and produce product components in an environmentally conscious manner.

AMERICAN AXLE & MANUFACTURING Detroit Gear & Axle Plant

"We are extremely pleased to obtain the Clean Corporate Citizen designation for our facility and to be recognized by the Governor's office and the DEQ. Receiving this honor will only serve to strengthen our resolve towards pollution prevention and overall environmental quality."

- Brad Comeau, Plant Manager

American Axle & Manufacturing (AAM) - Detroit Gear & Axle Plant is an automotive Tier 1 supplier, producing front and rear axles for GM mid-size and sport utility vehicles, as part of the Driveline and Chassis Division. The Detroit Gear & Axle Plant is AAM's flagship manufacturing operation, and recently went through an extensive renovation. Over 3,000 people work at the 1.8 million square foot facility on the Detroit/Hamtramck border, over 2,900 of them UAW union members. AAM built their World Headquarters on adjacent property in 2003. Since taking over the total 174-acre AAM site which includes several facilities, the company has revamped neighborhood street lighting; rebuilt sewers, streets, and sidewalks; demolished empty homes in the area and landscaped areas of open land.

The Detroit Gear & Axle Plant is registered to the ISO 14001 standard for environmental management, and is a partner in the DEQ's Michigan Business Pollution Prevention Partnership. The facility has set pollution prevention goals to reduce chemical use by 10 percent annually and achieve a 20 percent reduction in the use of coolant. The coolant management program saved more than 51,000 gallons/year of coolant, and use of parts washing solution was reduced by more than 7,000 gallons/year.

The plant has also set goals for energy use reduction in three activity areas: 1) installation of more than 46 rapid roll doors, 2) implementing a site-wide sophisticated energy management system to electronically control ambient air temperatures with pre-set controls, and 3) replacing over 30 "wet" gear-cut machines with "dry" machines that are more energy efficient and use less hydraulic oil. The gear-cut machine pilot program saved more than 733,000 kilowatt-hours. In addition, the facility's on-site commodities manager is charged with tracking chemical use and reducing it by 10 percent annually.

Detroit Gear & Axle participates in an AAM School-to-Work program that introduces local high school youngsters to manufacturing careers at the plant.

Vital Statistics:

Clean Corporate Citizen since December 23, 2003

Operation:
Automotive Supplier/
Manufacturing

Address:

1840 Holbrook Detroit, Michigan 48212

Wayne County



CLEAN CORPORATE CITIZEN PROGRAM

Asahi THERMOFIL - Fowlerville Center

"Asabi THERMOFIL strives for world-class results in every aspect of our operations. As part of our commitment to ensuring our customers' resin supply is not jeopardized by environmental enforcement actions, we are dedicated to a strong environmental management system. The Clean Corporate Citizen designation publicly recognizes the effort and contribution that each of our employees make in managing the environmental issues related to our operation, thereby minimizing our impact on the environment."

- Randy Rudisill, President of Asahi THERMOFIL, November 2003

Asabi THERMOFIL Fowlerville Center reports:

The Asahi THERMOFIL Fowlerville Center is the 78th Clean Corporate Citizen in Michigan. Asahi THERMOFIL is a premier custom resin compounding/manufacturing plant. The facility is a wholly owned subsidiary of Asahi KASEI, a global Fortune 500 company.

The Fowlerville Center is located within the Village of Fowlerville in Livingston County. Approximately 120 people work within the \$40-million, 200,000 square foot plant. It is the most technologically advanced engineering resins manufacturing and applications development facility in the world.

Asahi THERMOFIL's products include Thermylene® chemically coupled glass and glass/mineral polypropylene, mineral-filled polypropylene, Thermylon® ceramic/glass reinforced nylon 6 & 6/6, glass reinforced nylon 6 & 6/6, unfilled specialty polypropylenes, and filled/reinforced styrenics (ABS & SAN).

Also based within the Fowlerville facility is Asahi KASEI Plastics America, specializing in high performance engineering resins including Leona® - 6/6 nylons, Tenac® - acetals, and Xyron® - mPPE compounds.

The Asahi THERMOFIL Fowlerville Center's operations are certified to the following:

- ◆ QS-9000 / TS-16949
- ♦ ISO 14001
- ◆ ISO 17025

Vital Statistics:

Clean Corporate Citizen since November 26, 2003

Operation: Custom resin compounding/ manufacturing plant

Address:

One Thermofil Way Fowlerville, Michigan 48836

Livingston County

Asahi THERMOFIL

Asahi THERMOFIL serves markets worldwide. The plant provides technology and resins for a wide range of applications including construction, automotive, industrial, liquid handling, and electrical and electronic appliances.

Asahi THERMOFIL - Fowlerville Center, continued:

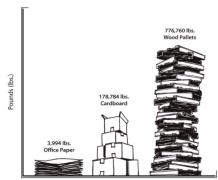
Quality, productivity, and environmental responsibility are the focus of Asahi THERMOFIL. The facility has earned numerous distinctions including a Merit Safety Award from the Society of the Plastics Industry.

As of January 2004, Asahi THERMOFIL implemented a state-of-the-art business and information systems infrastructure known as SAP. This new system is part of a commitment to top-notch service and communication, ultimately allowing the company to adapt to changing market conditions. SAP delivers real-time data including up-to-the-minute inventory, pricing and order-status information. The system integrates all manufacturing, financial and transactional functions. With SAP, Asahi THERMOFIL can make better decisions, minimize costs, and provide even better customer service.

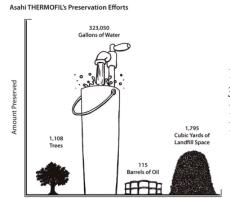
The Fowlerville Center continues to strive toward sustainability by searching for products and processes that will help reduce the waste stream. To achieve this goal, the plant has successfully implemented several pollution prevention (P2) initiatives. In 2003, the Fowlerville facility recycled and preserved the following:

Total recycled materials = 1.4 million pounds including:

Asahi THERMOFIL's Recycling Efforts



3,994 pounds of office paper 178,784 pounds of cardboard 776,760 pounds of wood pallets



1,108 trees
323,050 gallons of water
115 barrels of oil
1,795 cubic yards of landfill
space

Asahi THERMOFIL is dedicated to attaining a sustainable community environment. On Earth Day 2003, the facility provided trees for planting to each Fowlerville facility employee and all second-grade students enrolled in the Fowlerville School District. As part of their ongoing commitment to the local community, the Fowlerville Center also donates 2% of pre-tax profits to the community through various charitable organizations and activities such as the

Livingston County United Way.



AsahiKASEI

Located in Fowlerville, Michigan, the world-class Asahi THERMOFIL facility is dedicated to contributing to a sustainable community environment.



Asahi THERMOFIL is committed to excellence through a broad product portfolio of high performance thermoplastic resins, technology leadership, world-class manufacturing, environmental responsibility and superior customer service, all within a global presence.

ATLAS TECHNOLOGIES, INC.

"Atlas Technologies, Inc. is very proud to be the 59th recipient of the Clean Corporate Citizen Award and the 1st for the City of Fenton. This recognition summarizes all the hard work that Atlas employees put forth on a daily basis to ensure continual improvement in pollution prevention."

- James Kolinski, CEO

Atlas Technologies, Inc. reports:

Atlas was founded in Fenton in 1965, and is a leading manufacturer of pressroom automation equipment, supporting the automotive OEM, appliance, HVAC, and agricultural industries. Facilities on Alloy Drive and Copper Avenue utilize over 150,000 square feet of manufacturing, engineering and office space, and employ approximately 130 professionals.

We believe it is our responsibility to our community and to our world to protect our environment, and on that premise we developed an Environmental Management System, which was registered to ISO 14001 in October 2002. Atlas is also registered to ISO 9001 (since 1998) and QS-9000, with TE Supplement (since 2001).

Our Environmental Policy states:

Atlas is dedicated to continual improvement of our environmental performance. We are committed to:

- C ompliance with applicable environmental legislation and other requirements
- L earning of and reducing the adverse environmental impacts of our business
- E ducate, train and motivate employees to be environmentally responsible
- A ir, land and water pollution prevention
- N atural resource use reduction.

Accordingly, we have various environmental initiatives in place, including recycling of:

◆ scrap metal◆ used oil

• office paper

- shop rags
- ♦ toner cartridges
 - **♦** batteries
- scrap wire
- ♦ fluorescent light bulbs
- ◆ cell phones

Vital Statistics:

Clean Corporate Citizen since April 25, 2003

Operation: Automotive Supplier

Address:

201 South Alloy Drive Fenton, Michigan 48430

Genesee County



ATLAS TECHNOLOGIES, INC., continued:

In 2001-2002 Atlas implemented a corporate-wide paper recycling program. By adding one recycle bin at one pick-up per week, we were able to reduce the trash pick-up from 3 times per week to once per week (6 yard container) and save \$165/month. In December 2002 Atlas became an active member of the Michigan Business Pollution Prevention Partnership (MBP3).

In 2002-2003 a concerted effort to reduce paper use, by double-side printing and copying, and eliminating extra copies of several reports resulted in a savings of 30-35,000 sheets of paper per year - which is also 30-35,000 less sheets going to the landfill. In January of 2003 Atlas began participation in Cartridges for Kids, a fundraising program that recycles your empty cartridges and used cell phones and pays cash for them to your designated school or organization.

In July 2003, RETAP (Retired Engineer Technical Assistance Program), administered by DEQ (Department of Environmental Quality), conducted a comprehensive, on-site pollution prevention, waste reduction, and energy conservation assessment of Atlas Technologies. We look forward to implementing several of their recommendations in 2004.



CASCADE AUTOMOTIVE SOLUTIONS GROUP Grand Rapids

"Our commitment and dedication to environmental initiatives is a core element of the Cascade Engineering business strategy and a key contributor to our success."

- Mike Valz, Cascade Engineering President and Chief Operating Officer

Cascade Engineering reports:

Cascade Engineering's Automotive Trim Solutions (33rd Street and East Plants) and Cascade Engineering's Automotive Acoustics Solutions (South and West Plants) are full-service solutions providers of automotive interior trim and acoustics components for the automakers and their Tier 1 suppliers. The Automotive Solutions Groups have a history of innovation, a strong focus on operational excellence, and a commitment to being environmentally conscientious.

Based in Grand Rapids, Michigan, Automotive Solutions is part of the Cascade Family of Companies, which employs more than 1,200 people and reported 2003 revenues of \$255 million. Cascade Engineering is a world leader in injection molding of components and sub-systems for the automotive, waste and industrial container and commercial products industries.

Cascade Engineering is committed to the business principles of sustainability, which call on the focus of a triple-bottom line: financial, social, and environmental. As a company, Cascade Engineering has earned International Standards Organization 14001 certification, meeting the voluntary international standard for environmental management systems, and participates in the Michigan Business Pollution Prevention Partnership and the West Michigan Sustainable Business Forum. The Company is also active in the use of green energy from both wind power and solar radiation.

As part of Pollution Prevention Week, Cascade Engineering's Waste Reduction Team sponsored contests focused on getting employees involved in current recycling programs and new ways to reduce waste. With continued awareness and training, combined with a focus on usage reduction, these programs remain a key

Vital Statistics:

Clean Corporate Citizen since July 23, 2002 (33rd St. and East Plants)

Clean Corporate Citizen since July 1, 2003 (South and West Plants)

Operation: Engineered Plastics Products

Address:

5050 33rd Street 5175 36th Street 5141 36th Street 5055 36th Street Grand Rapids, Michigan 49512

Kent County



CASCADE AUTOMOTIVE SOLUTIONS GROUP - Grand Rapids, continued:

initiative and ongoing priority. Cascade Engineering has been accepted into Michigan's Adopt-A-Highway Program, has hosted several presentations from the Department of Environmental Quality on pollution prevention, and sponsors an annual day long Safety and Environmental Conference for employees that includes topics on waste reduction, pollution prevention, and best environmental practices.

The Automotive Solution Group plants earned Clean Corporate Citizen status for Cascade Engineering by demonstrating consistent environmental compliance, adopting active pollution prevention programs, and using an effective environmental management system. Since 2002, Cascade Engineering has conducted ongoing, aggressive campaigns to reduce the volume of scrap materials and contaminants transported to landfills, to reduce the potential for contaminants in water runoff presented in waste drains, and to reduce pollutants emitted to the air.



COLLINS & AIKMAN – Manchester Operation

"Employees at the Collins & Aikman Manchester Operation are pleased to be part of and recognized as a Clean Corporate Citizen. We understand that as our business changes we will continue our efforts to improve our environmental management system and reduce impact on the environment."

- Douglas Barger, Plant Manager

Collins & Aikman reports:

The Collins & Aikman Manchester Operation (Manchester) is the second Collins & Aikman facility to gain this recognition. Registered QS 9000 and based in Manchester Michigan, Manchester is a manufacturer of interior automotive parts, which includes door and instrument panels. Processes include plastic injection molding, vinyl skin casting, painting, foaming, and assembly. The facility employs approximately 450 personnel and operates on three shifts.

Manchester achieved ISO 14001 registration in December 2003. The emphasis has been on integrating environmental responsibilities into every employee job function as lean manufacturing principles are implemented. Efforts are first placed on source reduction and then waste minimization. Significant accomplishments in 2003 were:

- Reducing volatile organic compound emissions by 29% by utilizing alternative coatings in a painting operation
- Establishing a relationship with an outside company to recycle nearly 100% of scrap vinyl and plastic scrap

Manchester takes pride in its commitment and activities to protect the environment with the understanding that those in the surrounding community, employees, customers, and the environment in which we live must create a win/win situation for all. This commitment has been the foundation of the Environmental Management System and is outlined in its Policy.

W aste and pollution minimization

I njury and accident prevention

 \boldsymbol{N} atural resource conservation, recycling, and reuse

Vital Statistics:

Clean Corporation Citizen
Since
November 2003

Operation:
Production of interior
automotive parts

Address:

500 West Madison St. Manchester, MI 48158

Washtenaw County





CLEAN CORPORATE CITIZEN PROGRAM

DETROIT EDISON - St. Clair Power Plant

"Being recognized by the Department of Environmental Quality as a Clean Corporate Citizen is an honor and real testimony to the dedication of the St. Clair employees. Our employees are committed to fostering a strong environmental ethic and to continuous improvement of plant processes, especially those impacting the environment. I'm pleased our employees are being recognized in this special way and wish to thank the MDEQ for this consideration."

- Ben Kiehl, Director, St. Clair Power Plant

The St. Clair Power Plant (SCPP) is wholly owned and operated by the Detroit Edison Company, an investor-owned electric utility operating in Southeast Michigan. SCPP is a coal-fired power plant located adjacent to the St. Clair River, just south of the city of St. Clair. SCPP operates under a combination of three environmental policies: the facility-specific Environmental Policy; Detroit Edison's Waste Reduction Commitment; and DTE Energy's Environmental Protection statement. SCPP has implemented a water conservation demonstration project, initiated a three-year program to reduce energy usage by reductions in auxiliary power, and expanded their pollution prevention efforts to include their suppliers. Under Detroit Edison's corporate environmental goals, SCPP also participates in the U.S. Department of Energy Climate Challenge Program to reduce greenhouse gases.

SCPP earned ISO 14001 in 2002, and is a partner in the DEQ's Michigan Business Pollution Prevention Partnership (MBP3). Detroit Edison was a founding corporate member in the partnership.

SCPP 2002 pollution prevention projects completed:

- ◆ Installed "zero water use toilets" as a water conservation demonstration project.
- ◆ Achieved zero waste from wooden pallets through reuse, rebuilding, and recycling.
- ♦ Has partnered with supplier on switching to returnable shipping containers.

Vital Statistics:

Clean Corporate Citizen since December 15, 2003

Operation: Electric Generating Plant

Address:

4901 Pointe Drive East China Twp., Michigan 48054

St. Clair County



DETROIT EDISON - St. Clair Power Plant, continued:

SCPP 2003 goals:

- ◆ Initiate recycling of cafeteria vegetable oil.
- Expand returnable shipping container program to second supplier partnership.
- ◆ Initiate a 3-year program to reduce energy usage by reductions in auxiliary power.
- ♦ Develop P2 web page and send facility P2 representative to outside training.

SCPP also committed to Detroit Edison corporate P2 goals for 2003:

- ◆ Reduce all power plants to small quantity waste generator status, or lower.
- Remove from service all PCB capacitors by 2004.
- Increase efficiency of and participation in recycling program to improve recovery rates. Work with new and existing vendors to obtain accurate recycling data.
- ◆ Plant trees and seedlings to aid carbon sequestration (1,096,022 seedlings/trees planted in 2002). Provide \$56,000 in grants to local Michigan communities for tree planting projects.
- Participate in U.S. Department of Energy Climate Challenge Program to reduce greenhouse gases including plant efficiency improvements, energy partnerships, distribution system improvements, landfill gas recovery and energy purchase, electric vehicles, and solar and geothermal power.
- ◆ Build P2 into the supply chain, requiring all non-commodity contractors to develop a P2 plan.
- Incorporate environmental criteria in contractor bids and bid awards.

DEWITT BARRELS, INC.

In October 1999, DeWitt Barrels, Inc. was designated a Clean Corporate Citizen at their former facility near downtown Grand Rapids. DeWitt Barrels built a new facility in Marne, Michigan and continued their partnership with the DEQ as a Clean Corporate Citizen.

DeWitt Barrels is a five-generation owned family business started in Chicago in 1893, locating in Grand Rapids in 1939, and relocating to Marne in 2002. The plant is a new 60,000 square foot building in an industrial park in Wright Township, just west of Grand Rapids. DeWitt Barrels is a leader in the cleaning, reconditioning, and recycling of reusable industrial packaging. Products handled at the Marne facility include 55-gallon metal drums, plastic and fiber drums in various sizes, and 275-330 gallon tote containers.

DeWitt Barrels has eliminated HAPs (Hazardous Air Pollutants) and reduced VOCs (Volatile Organic Chemicals) in their painting process, and are committed to eliminating all VOCs in 2004. Other pollution prevention efforts include improvements in waste oil recovery, energy reduction, and a comprehensive environmental training program for their facility workers and their drivers. The facility has also been a partner in the DEQ's Michigan Business Pollution Prevention Partnership since April 1999.

DeWitt Barrels acts as a strong advocate for environmentally-responsible drum recycling on a national level. With their initial C3 designation, they created a video and showcased it at a national barrel industry conference to highlight DeWitt Barrels' commitment to an environmentally-responsible operation.

Vital Statistics:

Clean Corporate Citizen since October 1999

Operation: Barrel & Drum Reconditioning/Sales

Address:

1125 Comstock St. Marne, Michigan 49435

Ottawa County





Visit www.dewittbarrels.com for a slide show on the 5-generation history of DeWitt Barrels.



CLEAN CORPORATE CITIZEN PROGRAM

ELM PLATING COMPANY

"Elm Plating Company and its employees are elated and take great pride in this recognition by the Michigan Department of Environmental Quality. This has been accomplished over the years through major efforts related to environmental responsibility and improvements. It is one of Elm's major goals to continue to lead our industry in environmental stewardship." - James M. McCluskey, President and CEO.

Elm Plating reports:

THE ENVIRONMENT IS OUR CONCERN!

Elm Plating has taken many safety measures to avoid pollution, devotedly following ISO 14001 environmental standards. Environmental safety is one of our highest priorities.

Though Elm Plating has been in business since 1951 with one-family ownership, plating today is much different then it was years ago. Automation, computerization, more demands on quality, the latest machining technology, and skilled technicians are just a few of the components that set Elm Plating apart from and ahead of other plating companies.

The heart of our operation is zinc plating. All lines have internal computerized process control to ensure consistent, uniform results, and are monitored by trained technicians to assure systems are operating properly. To insure consistency and uniformity in our high-volume production and long plating runs, Elm Plating maintains state-of-the art automated process control. Process control checks are made by specialized technicians, including logging of data such as pH factor, temperature, chemical additions, chromates, acid, and cleaner concentrations.

Elm Plating Compa

Vital Statistics:

Clean Corporate Citizen since June 9, 2003

> Operation: Barrel Zinc Plating

Address:

1319 S. Elm Street Jackson, Michigan 49203

Jackson County

ELM PLATING COMPANY, continued:

Elm Plating's Anodizing plant is a General Motors and Chrysler approved supplier, providing rack anodizing as well as Type II and Type III hard-coat, military, and commercial specifications.

Test Laboratories USA is an ISO 17025 accredited laboratory onsite, providing an array of testing techniques, enabling Elm Plating to be a leader in the industry. Test Laboratories technicians are certified with the city of Jackson for wastewater analysis such as pH, hex chrome, chromium, zinc, and nickel. Monthly, quarterly, and semi-annual testing and reporting of results are submitted to governmental entities to maintain certification and permit compliance.



Elm Plating takes pride in its environmental achievements including MBP3, ISO 14001 certification, and, of course, the awarding of Clean Corporate Citizen in June of 2003 by the State of Michigan. Elm is also working diligently to eliminate hexavalent chromate and replacing it with non-hazardous trivalent chromium and a proactive recycling program involving zinc anodes, rags, cardboard, pallets, waste oil, and production gloves. In addition to the above environmental achievements, Elm has upgraded and added significant hardware and software to its wastewater treatment operations. The new equipment allows all chemical feeds to the system to be proportionally controlled, ensuring maximum chemical usage in the pretreatment of wastewater. This prevents adding additional chemistry to the system using only those chemicals needed for treatment.

Elm's commitment to continuous improvement includes on the job and classroom training for our technicians, operators, and key personnel. This commitment to training enables our company to provide services using the latest procedures and technologies accepted by our industry. Our employees participate in educational sessions provided by industry specialists as well as in-house training courses on an on-going basis.

Elm Plating is striving to be good stewards of the environment and good Clean Corporate Citizens in our community.

FORD MOTOR COMPANY -Livonia Transmission Plant

"Livonia puts forth a great team effort in managing our environment. The designation of Clean Corporate Citizen demonstrates the efforts and commitment of our workforce in making environmental stewardship a part of everyday life at Livonia."

- Frazier Anderson, Plant Manager

Ford-Livonia Transmission Plant reports:

The Ford Motor Livonia Transmission Plant is a world-class producer of automatic transmissions and automotive powertrain components. The plant is located at the northeast corner of Plymouth and Levan Roads on a 182-acre site. The facility began production of manual transmissions in 1952, subsequently undergoing six expansions, and is currently one of the largest manufacturing sites in the world. The manufacturing plant contains 3.3 million square feet and employs approximately 2700 people.

Livonia Transmission Plant personnel have made a commitment to preserving the environment through the implementation of an Environmental Management System (EMS) to minimize the impact of the plant's operational activities on the environment. Ford - Livonia has been third-party certified to the International Standards Organization ISO 14001 standards for environmental management since December 1998, and has implemented several waste minimization and pollution prevention programs:

Livonia has an Environmental Policy which promotes waste minimization and continuous improvement while meeting or exceeding regulatory requirements.

Environmental Achievements:

- The Plant has eliminated the use of all PCB transformers in its power distribution system. There are no PCB transformers on the Livonia site.
- ◆ The Livonia Plant annually recycles 33 million pounds of scrap metal.

Vital Statistics:

Clean Corporate Citizen since February 14, 2003

Operation: Automotive Transmission/ Powertrain Components

Address:

36200 Plymouth Road Livonia, Michigan 48150

Wayne County

FORD MOTOR COMPANY - Livonia Transmission Plant, continued:

- ♦ Water reduction efforts have resulted in a 27% decrease in gallons used in 2003 from 2002.
- Over 750,000 gallons of oil were recycled from the wastewater treatment process.
- Recycled over 650 tons of aluminum swarf with filter paper, an increase of 50% from 1999.
- ◆ Transmission oil reclaim system saves over 150,000 gallons annually.
- ◆ The plant recycles metal shavings, oils, light bulbs, fluorescent tubes, dry cell batteries, lead acid batteries, office paper, printer cartridges and wood pallets.
- ◆ Waste landfilled was reduced by 10% in 2003 from 2002.
- Plant environmental representatives conduct presentations to local elementary school science classes through Ford Motor Company's Environmental Ambassador Program.

GENERAL MOTORS - Lansing Regional Stamping Plant

"The entire union and management team at the General Motors LRS Plant recognizes the importance of environmental stewardship and community involvement. These efforts are demonstrations of our core values, focusing on continuous improvement and people systems. Our plant's ISO 14001 certification represents an extension of these values and we are proud to be recognized as a Clean Corporate Citizen."

- Jim Metevier, GM Lansing Regional Stamping Plant Manager.

"Environmental stewardship is important to GM and important to us at LRS. We are proud of the efforts of the entire management and UAW Local 652 team in achieving this honor of Clean Corporate Citizen."

- Mike Green, UAW Local 652 Vice Chairman.

General Motors - Lansing Regional Stamping Plant reports:

The GM Lansing Regional Stamping (LRS) Plant is located in Delta Township, Michigan. The state-of-the-art facility began stamping automotive parts in 2003 and is completely designed around GM's Global Management System (GMS). GMS is an integrated process that considers every aspect of the manufacturing process and revolves around five key principles: People Involvement, Standardization, Built-In Quality, Short Lead Time, and Continuous Improvement.

When LRS opened it was already ISO 14001 certified; the plant's Environmental Management System was developed and integrated through the construction and pre-startup phases at the facility. LRS employees are proud of the measures taken to protect the environment through environmental stewardship, personal integrity, and an overall commitment to the site's environmental policy as well as General Motors environmental principles.

The environmental policy at Lansing Regional Stamping Plant is summarized in our commitment to EARTH:

Environmental Laws (obey them)

Avoid Pollution

Reduce, reuse, recycle

Teamwork for continual improvement

Healthy environmental community

Vital Statistics:

Clean Corporate Citizen since September 26, 2003

Operation: Automotive Manufacturer

Address:

8001 Davis Highway Lansing, Michigan

Eaton County

GENERAL MOTORS - Lansing Regional Stamping Plant, continued:

Lansing Regional Stamping's commitment to the environment and community:

- No underground storage tanks, asbestos, or PCB containing materials.
- Aerosol products not permitted for use onsite.
- ♦ WE CARE (Waste Elimination, Cost Awareness Rewards Everyone) team of dedicated employees established at startup to focus on waste elimination, recycling alternatives, and energy reduction at the site.
- No chemical or waste materials with potential for storm water contamination are stored outdoors.
- ♦ Site personnel participate regularly in community meetings to discuss environmental related issues.
- ♦ Site personnel participate in local river sampling and other programs with area schools.
- Purchase of materials that could generate hazardous waste is prohibited.
- ◆ 100% of oil absorbent mats and socks are laundered and reused.

Lansing Regional Stamping recycling programs include:

- ◆ Office paper
- ◆ Cardboard
- ♦ Fluorescent tubes
- Batteries
- Scrap metal
- ♦ Wood
- ♦ Absorbent mats and socks

- ◆ Plastic non-returnable beverage containers
- ◆ Aluminum beverage containers
- Newspapers
- ◆ Used oil
- Ink cartridges
- Safety glasses

In 2003 we recycled:

- ◆ 47 tons of cardboard
- ◆ 1,600 pounds of newspaper
- ♦ 3,200 pounds of wood (in addition to reuse of wood pallets onsite)
- ♦ 2,300 pounds of office paper

Additional Pollution Prevention Activities LRS is committed to in 2004:

- Recycling paper blank covers (250 cubic yards of waste per year) which makes up 60% of plant trash currently going to landfills
- Recycling plastic containing oil filters (8 cubic yards of waste per year)

GENERAL MOTORS POWERTRAIN – Romulus Engine Plant

"The Romulus Engine plant is proud to be one of the six GM facilities to receive the Clean Corporate Citizen Award to date. We are committed to a strong internal environmental management system and support pollution prevention initiatives in the community. We will continue to strive for innovative ways to continuously improve our environmental stewardship." - Steve Somers, Plant Manager

Romulus Engine Plant Reports:

The GM Powertrain - Romulus Engine facility is approximately 1.5 million square feet, employs roughly 2,500 employees, and currently produces engines for many of GM's trucks. Plant operations include machining and assembly of V-6 and V-8 gasoline engines and wastewater treatment operations.

The GM Powertrain - Romulus Engine Plant received ISO 14001 certification for its Environmental Management System (EMS) in November 2000 and was re-certified in November 2003. The EMS provides the means for comprehensively planning, measuring, and improving environmental performance throughout all areas of the facility, as well as controlling and minimizing environmental impacts of manufacturing activities, services, and products.

The facility has been an active member of the Michigan Business Pollution Prevention Partnership (MBP3) since 2001 and is committed to improving the environment by promoting environmental principles such as pollution prevention, obeying environmental laws/regulations and other requirements including, but not limited to, corporate/industry standards and continual improvement.

GM Powertrain - Romulus Engine - Conserving our Resources:

In 2003, the GM Powertrain - Romulus Engine facility recycled 479 tons of cardboard, 482 tons of wood pallets, and 16.9 tons of office paper, which, along with energy conservation programs, contributed to the following conservation of Natural Resources:

- ◆ Diverted disposal of 5,847 Cubic Yards of Landfill Space
- ◆ Conserved 241,446 Gallons of Oil
- Conserved 3,468,647 Gallons of Water
- ◆ Conserved 12,612 Mature Trees
- ◆ Conserved 10,787,209 Kilowatt Hours of Electricity

Vital Statistics:

Clean Corporate Citizen since January 17, 2003

Operation:
Automotive Engine
Machining and Assembly

Address:

36880 Ecorse Road, Romulus, Michigan 48174

Wayne County



Setting the Standard for Environmental Excellence



GENERAL MOTORS POWERTRAIN - Romulus Engine Plant, continued:

Community and Environmental Commitments:

- ◆ Participated in the Rouge River water sampling activities at Silver Springs Elementary and Romulus Middle schools
- ◆ Sponsor Romulus Middle School for Friends of the Rouge Water Quality Program
- ♦ Sponsor Manufacturing Partnership in the ETCEP Printer Cartridge Recycle Program
- ◆ Annual Toys for Tots Program
- ◆ American Red Cross Bi-Annual Blood Drive
- ◆ United Way Campaign
- ◆ Member & Chair of the Romulus Local Emergency Planning Committee
- ◆ Member of the Romulus Chamber of Commerce
- ◆ Member of the Southern Wayne County Chamber of Commerce
- ◆ Participate in the fundraiser and walk for Breast Cancer
- ◆ Participate in the fundraiser and walk for American Heart Association
- ◆ Robotics Partnership with Romulus High School
- Support Habitat for Humanity
- ◆ Sponsor Romulus Little League Team
- Sponsor/Support City of Romulus Household Hazardous Waste Collection day

Recycling Programs - GM Powertrain - Romulus Engine:

-Used Oil -Office Paper
-Refrigerants -Grinding Wheels
-Wood Pallets -Cardboard
-Fluorescent Light Bulbs/Tubes -Printer Cartridges
-Plastic Items -Batteries

-Scrap Metal

The GM Powertrain - Romulus Engine facility reduced production industrial waste sent to landfill by approximately 12% in 2003. Overall plant recycling efforts were increased in 2003, including an 8% increase in recycling used oil and a 6% increase in recycling cardboard.



C3 Ceremony

(Pictured Left to Right): Steve Somers (Plant Manager), Lisa Parks (Environmental Engineer), John Graczyk (UAW Local 163 Rep.), Marleen Bandy (Environmental Engineer), Steven E. Chester (Director MDEQ)



I & W INDUSTRIES, L.L.C.

"I moved here because of the extraordinary natural resources of Northern Michigan. It is personally very important to me that we do everything possible to maintain this region's environmental quality."

- Jerry Carlson, Executive Vice-President and Co-Owner

I & W Industries is a \$7 million automotive fabricated tubing supplier; manufacturing power steering hoses and other automotive small-diameter metal tubes and lines. The minority-owned small business was founded in 1998 and currently has approximately 120 employees. Their components can be found in Chevrolet, Chrysler, Dodge, Ford, and Toyota vehicles. I & W was nominated two consecutive years for Minority Business of the Year by the Michigan Minority Business Development Council.

The facility received ISO 14001 registration in September 2003, and is a partner in the DEQ's Michigan Business Pollution Prevention Partnership. They have set pollution prevention goals to eliminate all disposal and landfilling of hazardous wastes, aerosol cans, obsolete computer hardware, and fluorescent lighting tubes. Other environmental goals include programs to reduce their use of electricity and compressed air.

I & W Industries and sister company, Skilled Manufacturing, Inc., were the first facilities in Grand Traverse County to earn the C3 designation. The two companies are owned by Traverse City entrepreneurs Dodd Russell and Jerry Carlson.

Vital Statistics:

Clean Corporate Citizen since December 15, 2003

Operation:
Specialty Tubing

Address:

2440 Aero Park Drive Traverse City, Michigan 49686

Grand Traverse County



CLEAN CORPORATE CITIZEN PROGRAM

INALFA/SSI ROOF SYSTEMS, L.L.C.

"Inalfa/SSI has worked consistently over the past decade to improve its environmental processes. We are pleased that our efforts have been recognized by being awarded Clean Corporate Citizen in 2003. We remain committed to the cause."

- Will Jacobs, President

Inalfa/SSI Reports:

Inalfa/SSI Roof Systems L.L.C. is engaged in the preparation of automotive roofs to accept a sunroof. We are a stamping and assembly company in Warren, Michigan; a subsidiary of Inalfa Roof Systems Group, headquartered in the Netherlands, Europe. The company supplies all major automobile manufacturers and is QS 9001 certified.

Inalfa/SSI received International Standards Organization (ISO) 14001 certification in 2000, and was awarded C3 in 2003. Significant goals included:

- ◆ 100% reduction of oily rags to landfills: all are now processed to reclaim oil.
- 100% of fluorescent bulbs recycled: accomplished.
- Replacement of inefficient compressors: accomplished.
- Improved energy efficiency: replaced lights with metal halide added exhaust analyzers to boilers, recycle cooling water in welding system and die wash.

The company is committed to operating profitably and responsibly, and will continue its efforts to provide a quality product in an environmentally friendly manner.

Vital Statistics:

Clean Corporate Citizen since May 9, 2003

Operation: Automotive Supplier/ Roof Systems

Address:

12500 E. Nine Mile Rd. Warren, Michigan 48089

Macomb County





CLEAN CORPORATE CITIZEN PROGRAM

KAY AUTOMOTIVE GRAPHICS – Lake Orion

"Kay Automotive Graphics is proud to be recognized as a Michigan Clean Corporate Citizen. Our company culture is committed to recognizing our environmental responsibility. This ultimately benefits our customers, employees, company, and community. Through the continuing efforts of our dedicated employees, we look forward to maintaining our designation as a Michigan Clean Corporate Citizen and improving upon our Environmental Management System."

- Alfred H. Bonnell, Executive Vice-President, Kay Automotive Graphics

Kay Automotive Reports:

During the past 25 years, Kay Automotive Graphics has achieved a position of leadership in the creation and supply of distinctive high-quality automotive trim. Kay's current product lines include Decals, Applikay Dimensional Graphics, Paint Films, Retro Reflectives, Kayguard Protective Maskings, Gravel & Abrasion Protective Films, and Functional Films. Kay has earned the respect of the world's largest automotive manufacturers, as well as Tier 1 and Tier 2 OEM suppliers, with consistent product innovation, quality, and dependable single-source service. For these reasons, Kay has become a preferred supplier to many of our major customers and has received many of the automotive industry's highest rated awards, and we are proud to add the State of Michigan's designation as a Clean Corporate Citizen to the list of our achievements.

Vital Statistics:

Clean Corporate Citizen since December 18, 2003

Operation: Decorative and Functional Automotive Trim

Address:

57 Kay Industrial Drive Lake Orion, Michigan 48359

Oakland County

Environmental management and pollution prevention have been integral parts of our corporate philosophy for over ten years. From the installation of a solvent extraction and recovery system in 1993, to the development of coatings free of hazardous air pollutants in 2004,



KAY AUTOMOTIVE GRAPHICS - Lake Orion, continued:

we consistently look for ways to minimize our effects on the environment. The implementation of the ISO 14001 Environmental Management System throughout the corporation helped to formalize our environmental initiatives into a systematic global approach.

The efforts of our employees has resulted in tremendous benefits to the environment. For example, hazardous waste generation in 2003 was 10,000 gallons less per year than in 2000. Reductions of hazardous waste for the three-year period exceed 20,000 gallons. Coatings are currently being reformulated to eliminate the use of hazardous air pollutants (HAPs). The implementation of the HAP free coatings started in 2003, with full implementation expected by the third quarter of 2005. The management at Kay continues to make a strong commitment to the environment, and by working together with its employees as one TEAM, looks forward to future environmental successes.

2003 Environmental Accomplishments:

- ♦ Hazardous Air Pollutant (HAP) Emissions Reductions
 - -100% elimination of HAPs from cleanup solvent, resulting in an elimination of 10,682 pounds of HAPs in 2003.
 - -12.5% reduction of HAPs in coatings, resulting in an elimination of 2,073 pounds of HAPs in 2003.
 - -Implementation of reduced HAP clear coat, resulting in the reduction of HAPs by 30% per gallon.
- ♦ Hazardous Waste Reduction 2,150 gallons less than in 2002, and 10,000 gallons less than in 2000
 - -Replacement of disposable paper and wood products with reusable/washable stainless steel items.
 - -Implemented reusable printing rags from disposal.
- ♦ Recycling Programs
 - -Paper
 - -Cardboard
 - -Wood Pallets
 - -Miscellaneous Co-mingled Batteries
 - -Fluorescent Light Bulbs
 - -Used Electronics (i.e., PC's)
 - -Silver (photo development process, scrap photo films)



...one company, one environment...



KEYKERT USA, INC. – Webberville & Wixom Plants

"We are pleased to receive the C3 designation for both of these facilities and to be recognized by the Governor's office and the DEQ. Receiving this honor will only serve to strengthen our commitment to pollution prevention and overall environmental quality."

- Tom VanNocker, Director of Human Resources at Keykert USA., Inc.

Keykert USA submitted two concurrent applications to the C3 program for the company's two Michigan facilities; the Webberville Plant and the Wixom Plant. Both have earned ISO 9000 for quality and ISO 14001 for environmental certification, and have been working for several years on waste reduction and recycling programs.

Webberville – This small to medium-sized facility is located in Ingham County, Michigan. Approximately 310 people work at the plant and live in the area. There is no machining at this site, primarily assembly of door, lift gate, tailgate, trunk and glove box locks and latches. The Webberville plant currently holds no environmental permits due to aggressive waste reduction and pollution prevention strategies. The following highlights their most recent environmental efforts:

- ◆ Reduced generator status from Small Quantity Generator to Conditionally Exempt Small Quantity Generator.
- Reduced hazardous waste disposal by 75 percent.
- Recycled 2046 pounds of computer equipment since 1999.
- Recycled 1629 pounds of electric lamps since 1999.
- Recycled 95 pounds of batteries since 1999.
- Recycled 125 pounds of aerosol cans since 2001.
- Recycled 2038 pounds of oils/coolants since 2001.
- ♦ Implemented additional recycling plans for printer cartridges, cardboard, metals, aluminum, and office paper.

Vital Statistics:

Clean Corporate Citizen
since July 7, 2003
(Wixom Plant)
Clean Corporate Citizen
since July 14, 2003
(Webberville Plant)
Operation:
Automotive Door, Liftgate,
Tailgate, Trunk and Glove
Box Locks & Latches

Addresses:

1101 Highview Dr. Webberville

Ingham County

46941 Liberty Dr. Wixom

Wayne County

KEYKERT USA, INC. - Webberville & Wixom Plants, continued:

Wixom – This facility is located in the municipality of Wixom, Wayne County. It was constructed in 1994 and occupies 37,067 square feet. Sales, purchasing, corporate staff, research, design, analysis, production and accounting functions are located at this site. Environmental goals at this plant include: increasing all recycling by 10 percent, decreasing solid waste sent to the landfill by ten percent this year, and reducing natural gas usage over the baseline. Other environmental efforts include:

- Reduced generator status from Small Quantity Generator to a Conditionally Exempt Small Quantity Generator in September 2000.
- Recycled 1008 pounds of computer equipment since 1999.
- Recycled 330 pounds of electric lamps since 1999.
- Recycled 55 pounds of batteries since 1999.
- Recycled 80 pounds of aerosol cans since 2001.
- Recycled 590 pounds of oils/coolants since 2001.
- ◆ Implemented additional recycling plans for printer cartridges, cardboard, metals, aluminum, and office paper.

Keykert USA is a subsidiary of the Keykert Group headquartered in Germany, and began operations in the U.S. just over 10 years ago. Keykert's Webberville facility is the only manufacturing plant in the U.S. which produces automobile locking systems for cars of the world. Their primary automotive customers include Ford, Mazda, Saturn, Jaguar, and General Motors. Keykert has two facilities in the U.S., both in Michigan. The Wixom site is dedicated to research and development, and prototype engineering, and testing.

LDM TECHNOLOGIES - ST. CLAIR

"LDM Technologies, St. Clair facility is very pleased to be recognized as a Michigan Clean Corporate Citizen. This has been accomplished by the dedication of our employees and our being committed to continual improvement and teamwork."

- Joyce Evans, Environmental Management Systems Coordinator

LDM Technologies-St. Clair reports:

LDM Technologies St. Clair had the distinction of being the first of the LDM plants to be recognized under the Michigan Clean Corporate Citizen designation. The facility became ISO 14001 certified in December 2002, and has been a partner in the Michigan Business Pollution Prevention Partnership since April 2003.

In October 2003, the St. Clair facility closed its doors for consolidation with the LDM-Port Huron and LDM-Croswell facilities. LDM-Port Huron was purchased by Plastech Engineered Products. The newly-acquired Plastech-Port Huron facility has also achieved Clean Corporate Citizen designation. (Editor note: The Plastech-Port Huron facility will be featured in the 2004 edition of "Meet Michigan's Clean Corporate Citizens.")

The St. Clair facility performed injection molding of automotive parts. The parts ranged in weight from our lightest (retainer) .57 grams to our heaviest (oil pick up tube) 109.51 grams. The facility operated year round on three shifts 24 hours per day, 5 days per week, with 76 employees.

LDM Technologies-St. Clair achieved their C3 designation by continually incorporating P2 programs into their daily operations. Program goals for 2003 included:

- ◆ Recycling of cardboard.
- Reducing amount of paper waste going to the landfill by 30 percent.
- Reducing magazine subscriptions by 50 percent.
- Recycling fluorescent lamps, batteries, and mercury thermostats (Universal Waste Program).
- Recycling used oil.
- Recycling printer cartridges.
- Reduce the amount of scrap plastic parts going to the landfill by 50 percent.
- Reduce the amount of contaminated material.

Vital Statistics:

Clean Corporate Citizen since August 21, 2003

> Operation: Plastics Molding & Assembly

Address:

1701 Sinclair Street St. Clair, Michigan 48079

St. Clair County

LDM TECHNOLOGIES - ST. CLAIR, continued:

Some of the 2003 highlights include:

- ◆ 40 percent reduction of paper waste.
- ◆ 60 percent reduction of magazines.
- Reduction of contaminated material and purges project had a cost savings of \$84,120.66 by reducing the amount of mold changes by 50 percent (by creating a "home" base for molds that use the same material, we could lessen mold changes and have fewer errors for using the wrong material).
- Reduction of magazines was simplified by having the Managers control the magazines for one year, in binders in their offices for the employees to review if they wished. All other office personnel canceled their subscriptions which greatly lowered the amount of magazines coming into the facility.

LIGHT CORPORATION

"We are fortunate to live and work in a beautiful part of the state, close to the shores of Lake Michigan. The environment and creating sustainable products are a high priority for us, and I congratulate our entire team on this designation."

- Bradley Davis, President

Light Corporation Reports:

Light Corporation, founded in 1986, designs and manufactures energy-efficient lighting fixtures. To promote energy efficiency we use advanced fluorescent lamps, electronic ballasts and other innovative options such as occupancy sensors which turn lights out in unoccupied offices. Light Corporation takes environmental responsibility in the design and manufacture of products, beginning in the product development phase with an eye toward sustainability.

Light Corporation implemented an environmental management system and obtained ISO 14001 registration in February 2001 to ensure that manufacturing processes and company policies are environmentally sound.

The facility has set and achieved goals:

- 1. Reduce the disposal of hazardous material by 100 percent.
- 2. Purchase 100 percent post-consumer, recycled content corrugated packaging for products (July 2002 June 2003: 450 tons recycled content saved 6,630 trees, 1,078 cubic yards of landfill, 2,884,050 gallons of water and 1,723,534,800 kW).
- 3. Reduce foam in-place waste by 50 percent and send foam waste to supplier for reuse in energy creation.
- 4. Purchase copy paper that includes post-consumer recycled content.
- 5. Construct a cover over the metal waste dumpster.*
- 6. Color code pipelines for all systems (air, water, gas, etc.) to aid in maintenance control.*
- 7. Initiate compressed air system preventative maintenance.*
- 8. Install motion sensor switches to control lighting in spaces used only intermittently (offices and restrooms).*
- 9. Established an intranet (over 1500 files) for all associate use which includes procedures, policies, work instructions, references, forms, training material, among other human resource data to help reduce paper use.
- 10. Utilize bio-based cleaning and bio-based coolant products which are completely safe for the environment and the people who use them.
- 11. Commit to the use of electric forklifts.
- 12. Maintain a smoke-free facility.
- * Direct results of RETAP (Retired Engineers Technical Assistance Program) assessment and recommendation.

Vital Statistics:

Clean Corporate Citizen since December 30, 2003

Operation: Office and Home Lighting Systems

Address:

14800 172nd Avenue Grand Haven, Michigan 49417

Ottawa County



LIGHT CORPORATION, continued:

The Green Team, consisting of eight associates including three managers, meets monthly to review aspects and impacts of operation and has a current goal to reduce plant lighting energy usage by 50 percent. The team publishes a monthly newsletter and hosts monthly quizzes for continuous improvement and education of all associates creating a fun atmosphere.

- Recycling program is strong at Light Corp., collecting and shipping out 18 materials including acrylic, aluminum, batteries, cardboard, computer equipment, coolant, foam, fluorescent and HID lamps, metal, printer and toner cartridges, paper, packing peanuts, plastic, wire, waste oil, and wood.
- Reuse is promoted within all processes and also in conjunction with suppliers to reuse or exchange cardboard, foam, gaylord boxes, pallets, paper, racks, and totes.
- Reduction of materials is the objective for the Lean Team which includes minimizing inventory, preventative maintenance programs, and maximizing efficiency within processes via continuous improvement team events.

Light's commitment to lean and clean processes has a triple-bottom line impact. (See editor note below.)



Editor note:
The "Triple Bottom Line"
typically refers to:
ENVIRONMENTAL
ECONOMIC
SOCIAL



MODERN PLASTICS CORPORATION

"Modern Plastics Corporation is very proud to be the 60th recipient of the Clean Corporate Citizen Award and the first in Berrien County. We are committed to a cleaner environment and continue to strive to make environmental stewardship a part of the way we do business. This recognition is a tribute to Modern Plastics' employees in their ability to balance business and environmental goals embracing the need to protect the environment."

- Victor A. Miller, President

Modern Plastics Corporation reports:

Modern Plastics Corporation in Benton Harbor designs and manufactures automotive and non-automotive thermoplastic custom molded products, including parts for fuel tanks, brakes, and appliances. They operate with 130 employees at the Benton Harbor site, and also have a blow-molding facility in Coloma. The facility received ISO 14001 registration in July 2001 for their environmental management system. They continue this commitment by encouraging their suppliers to implement an EMS of their own.

The facility is an active partner in the Michigan Business Pollution Prevention Partnership and sets annual goals to identify pollution prevention opportunities. Environmental improvement projects include management commitment to an overall 5 percent reduction in energy use, a 10 percent overall reduction of landfill waste, and ensuring that every employee is aware of and participates in the paper and cardboard recycling program. Modern Plastics has also taken advantage of the voluntary Retired Engineers Technical Assistance Program (RETAP) to complete a facility-wide solid waste assessment and identify opportunities for new waste reduction goals.

Modern Plastics Corporation was the first and is the only Clean Corporate Citizen in Berrien County.

Vital Statistics:

Clean Corporate Citizen since May 23, 2003

Operation: Thermoplastic custom molding

Address:

489 North Shore Drive Benton Harbor, MI 49022

Berrien County



CLEAN CORPORATE CITIZEN PROGRAM

PALMER ENGINEERING, INC.

"We are pleased to be recognized by the DEQ for our pollution efforts. I believe that with the direction from our owners and our employees' commitment, we can, and have made a positive impact on the environment, yet, we have proven we can also reduce our costs as a result."

- Paul Pakkala, Palmer Engineering Inc. Plant Manager

Palmer Engineering joins a sister plant, Demmer Corporation's Delta Township stamping plant, as a Clean Corporate Citizen. They design and manufacture metal products used in the automotive and commercial industry. Palmer Engineering, Inc. has been in operation since 1948 as a Tier 1 and Tier 2 supplier of small stampings to the automotive industry, commercial trucks as well as other non-automotive customers.

Demmer Corporation has contributed to various needs of the aerospace general aviation industries since the late 50's. Their expertise in stamping and fabrication of exotic metals, most common to the aviation industry, is well qualified. They design and build a variety of special tooling, dies, assembly fixtures, gauges, fabrication equipment, and production parts including:

- ◆ Space Shuttle Program-special tool and gauging requirements
- ◆ F-22 Advanced Tactical Fighter tooling
- ◆ B-1 Bomber qualifying fixtures
- ♦ B-2 Bomber tooling
- ◆ 747 Aircraft Brake Stator Unit auto assembly machine
- ◆ NASA Rocket Test Stand compressor housing assembly
- ◆ "Huey" Helicopter Roto Transmission qualifying test stand

Vital Statistics:

Clean Corporate Citizen since May 23, 2003

Operation:
Precision Stampings

Address:

3525 Capital City Blvd. Lansing, Michigan 48906

Ingham County



PALMER ENGINEERING, INC., continued:

- F-16 Fighter Brake Heat Shield tooling and production parts
- ◆ Radar Nose Cone-special draw press and fabrication dies
- ◆ 747 Aircraft Hub Caps-production dies
- ◆ Jet Engine Heat Shield-fabrication tools and production parts
- ◆ Jet Fighter Oil Tanks-production tools and dies
- ♦ Jet Engine Fuel System Components-fabrication tooling

At the Lansing plant, Palmer Engineering has been aggressively pursuing reusable packaging materials with their customers and suppliers. They are also investigating a closed loop air compressor system and thermostatic controls that are programmable to reduce energy consumption.



They earned ISO 14001 certification in November of 2002, became a member of Michigan's Business Pollution Prevention Partnership in April 2003, and were designated as a Clean Corporate Citizen in August, 2003. This past year they have reduced their environmental footprint in the following ways:

- Reduced approximately 300 cubic yards of general waste by recycling.
 - a) recycling all cardboard from plant = 200 cubic yards
 - b) recycling all paper = 100 cubic yards
- Reduced high alkaline cleaners by 150 gallons a month by using "oil eating microbes".
- Reduced electrical usage by 5 percent, by utilizing productivity improvements such as "lights out" production.
- Reduced cardboard expendable packaging by 20 percent by using customer-provided returnable packaging.

Goals for 2004:

- Reduce gas consumption by 5-10 percent by improving heating systems.
- Reduce electricity by monitoring and managing daily peaks and further utilizing "lights out" production.
- Reduce oil consumption and hazardous waste by 5 percent by using biodegradable soap lubrication as an alternative.

PLASTECH ENGINEERED PRODUCTS, INC. – Clarkston Facility

"Employees of the Plastech – Clarkston Facility are proud of their commitment to pollution prevention and waste reduction and are honored to receive the Clean Corporate Citizen Award. Through the continuing efforts of our dedicated employees and corporate support, we look forward to maintaining and improving our current systems that have allowed us the distinction of becoming Michigan's 86th Clean Corporate Citizen."

- Kenneth Surbrook, Plant Manager

Plastech Engineered Products reports:

The Clarkton Facility is a shipping, receiving, and manufacturing plant. It contains fifteen injection molding machines ranging in size from 85 tons to 450 tons that produce parts for the automotive industry and cam gears for Briggs and Stratton engines.

The Clarkston Facility earned its C3 designation in December 2003, and earned its ISO 14001 Certification in February 2003. The goal for this facility is to reduce our electrical usage by 5% by the end of year 2004.

Energy reduction efforts include:

- ◆ Barrel blanket covers on presses
- ◆ Air compressor monitoring for psi's and leaks
- New energy efficient windows
- ◆ Automatic motion detector light switches
- ◆ Automatic thermostats
- ◆ New energy efficient fluorescent light fixtures

Vital Statistics:

Clean Corporate Citizen since December 30, 2003

> Operations: Engineered Plastic Injection Molded Products

Address:

5020 White Lake Road Clarkston, Michigan 48346

Oakland County



PLASTECH ENGINEERED PRODUCTS, INC. - Clarkston Facility, continued:

Besides the commitment to decrease our energy usage, we have also continued to look for opportunities to reduce the amount of waste that we produce at the Clarkston Facility.

Our current recycling programs include the following:

- ◆ Cardboard
- ◆ Plastic purge
- Office paper
- Fluorescent light bulbs
- ♦ Ink cartridges

- ◆ Used oil
- ◆ Parts washer solvent
- Elimination of duplicate publications
- Batteries
- Mercury switches

To demonstrate to our employees our dedication to reducing our impact on the environment, we have implemented an employee battery recycling program where employees can bring in their used household batteries, and we will properly dispose of them at no charge.

QUALITY METALCRAFT, INC.

"Quality Metalcraft, Inc. is proud to be recognized as Michigan's first small company to receive the Clean Corporate Citizen designation. We reiterate our commitment to a cleaner, healthier environment, and continue to monitor and improve our manufacturing processes to minimize environmental impact in the community in which we work and live."

- Michael Chetcuti, President, Quality Metalcraft

Quality Metalcraft, Inc. reports:

Quality Metalcraft is a high-technology primary supplier of metal stampings, fabricated parts, prototypes, and complete weldments and assemblies. Over 300 employees including 240 skilled manufacturing professionals make up the staff at Quality Metalcraft, Inc. Our employees add value to our products with years of expertise in tooling development and construction, prototype part manufacturing, CAD, engineering, production processing, and quality.

Environmental improvements at Quality Metalcraft include the installation of a storm drain filtration system. Recycling programs include: Office paper, paper, used oil, scrap metal, brass, light

tubes, oil filters, batteries, UPS batteries, printer cartridges, aerosol cans, and mop water.

Also in 2002, Quality Metalcraft sponsored an intern from the DEQ in conjunction with Western Michigan University to work on environmental issues. The intern worked with RETAP (Retired Engineers Technical Assistance Program) to improve the use of energy and set up our office paper-recycling program. We also have optimum materials management of the storage of drums and/or chemicals so that employees who perform floor audits can walk around the entire drum of chemical. Every label or part of the drum, can, etc. is visible.

Vital Statistics:

Clean Corporate Citizen since August 14, 2003

Operation:
Automotive/Metal Stamping
and Components

Address:

33355 Glendale Ave. Livonia, Michigan 48150

Wayne County



QUALITY METALCRAFT, INC., continued:

Quality Metalcraft Inc. received certification to ISO 14001 in November of 2001. Our environmental policy describes our commitment to the environment.

Environmental Policy

Quality Metalcraft, Inc., is dedicated to providing innovative environmental solutions that promote the "Protection and Preservation of Natural Resources" for ourselves and our neighbors. This is accomplished through our commitment to continual improvement of the Quality Metalcraft Inc., ISO 14001 Environmental Management System. Our main objectives are to:

- ♦ Minimize and prevent the creation of waste and pollution
- Exceed applicable legal and other requirements
- ♦ Investigate the reduction of hazardous and toxic chemicals
- ♦ Improve the efficiency of energy use

Our policy will, therefore, be communicated to our employees and other parties interested in the performance of our Environmental Management System.

Alexander Chetcuti - CEO Michael Chetcuti - President



SKILLED MANUFACTURING, INC.

"Our commitment to the environment is tied up with our commitment to excellence. We want to be on the leading edge of clean manufacturing processes, just like we want to show leadership in technology and quality. It's the way we do business."

- Dodd Russell, President and Co-Owner

Skilled Manufacturing provides machined castings and modular assemblies of automotive parts to the automotive industry as a Tier 1 and Tier 2 supplier. The minority-owned small business was founded in the 1970's and currently has approximately 150 employees.

The facility received ISO 14001 registration in March 2003, and is a partner in the DEQ's Michigan Business Pollution Prevention Partnership (MBP3). Skilled Manufacturing was the first MBP3 member in the Grand Traverse/Leelanau area.

They have set pollution prevention goals to eliminate the storage of hazardous materials on-site, and to reduce metal scrap, coolant consumption and disposal, and electricity and water usage, in addition to their existing reuse and recycling programs. Their Environmental Team is very active with the local emergency response community. Skilled Manufacturing also has a strong environmental and safety training program that includes their subcontractors and all levels of staff.

Skilled Manufacturing and sister company, I & W Industries, L.L.C., were the first facilities in Grand Traverse County to earn the C3 designation. The two companies are owned by Traverse City entrepreneurs Dodd Russell and Jerry Carlson.

Vital Statistics:

Clean Corporate Citizen since December 15, 2003

Operation:
Automotive Steering
Systems

Address:

3680 Cass Road Traverse City, Michigan 49684

Grand Traverse County



CLEAN CORPORATE CITIZEN PROGRAM

TENNECO AUTOMOTIVE - Litchfield

"It is a great honor to receive this award. Tenneco Automotive Litchfield is dedicated to ensuring a healthy environment for the safety and well-being of our employees and our community."

- Doug Minix, Litchfield Plant Manager.

Tenneco Automotive-Litchfield is an automotive Tier 1 and Tier 2 supplier, producing emission control components and systems for original equipment manufacturers including Daimler Chrysler and General Motors. The facility operates in a 200,000 square feet plant and ships more than 26 trucks of parts per day. Tenneco Automotive-Litchfield was certified to the ISO 14001 standard in 2002.

Tenneco Automotive-Litchfield is a member of the DEQ's Michigan Business Pollution Prevention Partnership. The environmental team at the facility has set aggressive goals in the area of pollution prevention to reduce oil and propane consumption by 20 percent, and reduce the use of parts washers by 50 percent to conserve energy. Tenneco Automotive

-Litchfield also has strong environmental training programs to ensure that staff and contractors are operating within the facility environmental management system requirements. Of particular note is their commitment to considering shipping, transport of parts, and the entire product life cycle in their environmental evaluations.

The parent company - Tenneco Automotive - is a \$3.4 billion manufacturing company and one of the world's largest producers and marketers of ride control and exhaust systems and products, with headquarters in Lake Forest, Illinois.

Tenneco Automotive-Litchfield was the first Clean Corporate Citizen in Hillsdale County.

Vital Statistics:

Clean Corporate Citizen since December 15, 2003

Operation: Automotive Supply/Emission Control Systems

Address:

929 Anderson Road Litchfield, Michigan 49252

Hillsdale County



CLEAN CORPORATE CITIZEN PROGRAM

UNI BORING, INC. - Howell, Michigan

"Uni Boring is proud to be included among an elite group of Michigan companies that have achieved the Clean Corporate Citizen status."

- Dan Waligora, Safety & Environmental Mgr.

Uni Boring, Inc. reports:

Uni Boring is driven to achieve worldwide recognition for the specialized machining and assembly of powertrain products required to meet automotive customer's quality, performance, and competitive objectives. We provide customers with complete program management. Our driving force is continuous improvement in serving customers and prospering in a manner to support our mission. Our products include intake manifolds, cylinder heads, and engine blocks. We also provide partial and full engine assembly for niche and production markets.

Uni Boring Environmental Program

Uni Boring, Inc. is committed to the protection of the environment for the present and for future generations.

As we work to improve the quality of our products and services, we also strive to preserve and improve the environment of our community. All of our employees are responsible for incorporating into their planning and work the actions necessary to fulfill this commitment. To achieve this, an internal environmental committee comprised of crossfunctional representatives from other departments or work areas, establishes environmental objectives and targets that are supported by top management.

Uni Boring EMS Program Intent Slogan - Remember "M.I.L.L"

<u>M</u>anage energy efficiently

Improve continually

Less Waste

Less pollution

Accomplishments:

- Uni Boring's general recycling program includes the recycling of cardboard, gloves, wood pallets, office paper, scrap metal, printer cartridges, safety glasses, batteries, plastic bottles, and light bulbs.
- Uni Boring uses a metal recycling system that collects and dries all scrap metal/aluminum chips that can be recycled and used in other industries.

Vital Statistics:

Clean Corporate Citizen since May 23, 2003

Operation: Machining of Automotive Parts & Components

Address:

2280 W. Grand River Ave. Howell, Michigan 48843

Livingston County

UNI BORING, INC. - Howell, Michigan, continued:

- ◆ Uni Boring trained its Facility Services and Emergency Response Teams in various emergency planning and response activities such as Storm Water Pollution Prevention and Accidental Spill Release Response. Secondary containment controls/structures have been installed in order to contain and prohibit any potential spills getting outside the facility and into the environment.
- Uni Boring recycles its processed machining fluid coolant within the facility. A liquid hauler has been contracted for proper removal and disposal.





VISTEON CORPORATION – Ypsilanti Plant

"Visteon's Ypsilanti Plant is proud to be recognized by the MDEQ as a Clean Corporate Citizen. Visteon holds the environment in which we live and work in highest regard. We strive to uphold a high level of commitment by maintaining successful environmental management programs at all of our facilities. I am proud to join my colleagues from other Visteon facilities who work so diligently to produce quality product for our customers in an environmentally sound manner in this honor."

- Dennis Radojcich, Ypsilanti Plant Manager

Visteon Reports:

The Visteon Corporation – Ypsilanti Plant is located on Spring Street in Ypsilanti, Michigan. The plant employs approximately 1200 people in one million square feet of manufacturing space and administrative offices. The manufacturing products include ignition coils, starter motors, synchronizers, and PGM bumper shocks. Area I contains all the PGM (polygel mitigator) bumper shocks and ignition products. PGM bumper shocks are used in vehicles to absorb energy during an impact. The main manufacturing processes for these products include stamping, machining, heat curing, assembly, and welding. The ignition products include Series 5, four and six tower coils, and COP (coil-on-plug ignition) coils. These are mounted on the engine block to provide spark for the ignition system. The manufacturing processes for these products include automated winders, assembly, and vacuum impregnation and curing.

Area II contains products that go into making the complete starter motor. The starter motor uses an electromagnetic field to rotate the vehicle's engine during the start process. The manufacturing processes involved in making the starter motor include stamping, machining, welding, wire winding, heat curing, soldering, and assembly.

The Ypsilanti Plant received its initial ISO 14001 Certification for the Environmental Management System (EMS) in October 1998, through Lloyd's Register Quality Assurance (LRQA). The plant was re-certified in October 2001 through LRQA, and continues to pass surveillance audits. Ypsilanti personnel have made a commitment to preserving the environment through the implementation of the EMS, and to minimize the impacts of the plant's operational activities on the environment. The certified EMS program has been integrated into all levels of responsibilities. A Cross Functional Team (CFT) was developed with representatives from each operational area and meets on a weekly basis to discuss and update the EMS. The entire EMS is kept on the plant website so everyone in the plant has read-only access to the policy, procedures, work instructions, etc.

Vital Statistics:

Clean Corporate Citizen since May 27, 2003

Operation: Automotive Supplier

Address:

128 Spring Street Ypsilanti, Michigan 48198

Washtenaw County



Appendix

EMS Close-Up

What is an Environmental Management System (EMS)?

An EMS is a voluntary system for identifying, controlling, and monitoring the regulated and nonregulated activities at a facility that could impact the environment. The EMS concept was developed by industry as a proactive way to:

- ◆ Improve environmental performance beyond that required by regulation;
- Create a more level "playing field" in environmental control in the world market;
- ◆ Provide a competitive advantage; and
- Give credibility to environmental programs.

What does an EMS look like?

There is not one single type of EMS but there are standards or formats to follow in developing a system. The most well-known and widely used EMS standard in the United States and the world is the International Organization for Standardization (ISO) standard, ISO 14001. The C3 rules on EMS content were based on ISO 14001. Some of the elements of an EMS are:

- Operational control through work instructions and procedures;
- Employee environmental training;
- ◆ Emergency response planning; and
- Environmental recordkeeping and reporting.

Most likely, a facility already has programs and documents that satisfy most of the common elements. The facility might only need to formalize its procedures and documents so the programs can be managed in a logical and accessible manner.

What are the benefits of an EMS?

A facility can reap numerous business benefits from EMS development in addition to those provided by C3 designation. These benefits include:

- Reduced costs Facilities that have implemented an EMS report improved operating efficiency through the focus on important issues, the development of standard procedures, and increased employee training.
- Competitive advantage Consumers and manufacturers are giving preference to products from environmentally responsible suppliers.
- ◆ Improved image The local community, environmental regulators, and environmental groups see EMS development as an indication of a facility's willingness to be a responsible citizen and to go beyond compliance. They will be willing to recognize and reward those efforts.
- Enhanced regulatory compliance The adoption of procedures and work instructions and the additional related training will add consistency and stability to the environmental programs and reduce a facility's potential for liability.
- Improved environmental performance The systematic identification of potential environmental impacts and the on-going setting and achievement of goals to control those impacts will ultimately lead to improved performance and a cleaner environment.

For further information on how to develop an Environmental Management System specific to your facility, the Environmental Science and Services Division has an Environmental Management System Guidance Manual available. The manual is designed in workbook format to take you step-by-step through the process of developing an EMS. Medium and large establishments can use it as a resource to learn more about the necessary elements of an EMS and its value. Contact the Environmental Assistance Center at 1-800-662-9278 to order a copy.

